

In a still further aspect the invention consists in a refrigerator including a door state changing apparatus as set forth above.

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## **ABSTRACT**

An apparatus assists a user to move a door between closed and open states. The apparatus includes a permanent magnet provided on the door. An electromagnet is located on the door frame adjacent thereto when the door is closed and is energisable to provide a magnetic field which reinforces the permanent magnetic field or to provide a magnetic field in opposition to the permanent magnetic field. A detector detects the state of the door and an interface detects the presence of a user. A controller receives input from the detector and the interface and energises the electromagnet to provide a reinforcing magnetic field if a user is attempting to open the door and provides an opposing magnetic field to the permanent magnetic field if the door is closed and the user is attempting to open the door.